No. 200500205

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Frito-Lay North America, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

POTATO

'FL 2072'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this nineteenth day of September, in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions* — Form Approved - OMB No. 0581-0055

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER
Frito-Lay North America, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME
1998 122.9

3. VARIETY NAME
FL 2072

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
7701 Legacy Drive
Plano, TX 75024

5. TELEPHONE *(include area code)*
(972) 334-3822

6. FAX *(include area code)*
(972) 334-5965

FOR OFFICIAL USE ONLY

PVPO NUMBER
200500205

FILING DATE
April 8, 2005

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)*
Corporation

8. IF INCORPORATED, GIVE STATE OF INCORPORATION
DE

9. DATE OF INCORPORATION
August 8, 1989

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. *(First person listed will receive all papers)*
Robert J. Jondle, Esquire
Jondle & Associates, PC
908 E. Mineral Circle
Suite 200
Centennial, CO 80112

FEES RECEIVED
FILING AND EXAMINATION FEES:
$ 3652.00
DATE 4/8/05
CERTIFICATION FEE:
$ 682.00
DATE 8/10/05

11. TELEPHONE *(Include area code)*
(303) 799-6444

12. FAX *(Include area code)*
(303) 799-6898

13. E-MAIL
rjondle@jondlelaw.com

14. CROP KIND *(Common Name)*
Potato

16. FAMILY NAME *(Botanical)*
Solanaceae

15. GENUS AND SPECIES NAME OF CROP
Solanum tuberosum, L.

17. IS THE VARIETY A FIRST GENERATION HYBRID?
☐ YES ☑ NO

18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (***OPTIONAL***)
☐ YES ☑ NO
IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION. _____

19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED
(Follow instructions on reverse)
- a. ☑ Exhibit A. Origin and Breeding History of the Variety
- b. ☑ Exhibit B. Statement of Distinctness
- c. ☑ Exhibit C. Objective Description of Variety
- d. ☑ Exhibit D. Additional Description of the Variety *(Optional)*
- e. ☑ Exhibit E. Statement of the Basis of the Owner's Ownership
- f. ☑ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)*
- g. ☑ Filing and Examination Fee ($3,652), made payable to "Treasurer of the United States" *(Mail to the Plant Variety Protection Office)*

20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes", answer items 21 and 22 below)* ☑ NO *(If "no", go to item 23)*

21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?
☐ YES ☑ NO
IF YES, WHICH CLASSES? ☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☑ NO
IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED
(If additional explanation is necessary, please use the space indicated on the reverse.)

23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES?
☐ YES ☑ NO
IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. *(Please use space indicated on reverse.)*

24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT *(PLANT BREEDER'S RIGHT OR PATENT)*?
☐ YES ☑ NO
IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. *(Please use space indicated on reverse.)*

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER		SIGNATURE OF OWNER	
Thomas P. Schur			
NAME *(Please print or type)*		NAME *(Please print or type)*	
Thomas P. Schur		Thomas P. Schur	
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
Secretary	24 MAR 2005	Secretary	

(See reverse for Instructions and Information collection burden statement)

EXHIBIT A. Origin and Breeding History of the Variety

The variety FL 2072 originated in the Frito-Lay, Inc. private potato breeding program. The variety is the result of classical hybridization breeding. No gene insertion was involved in the breeding of FL 2072 or its parents. In 1996, Robert W. Hoopes made a cross at the Frito-Lay Agricultural Operations and Development facility near Rhinelander, Wisconsin, between the varieties FL 1913 and FL 1887. FL 1913 was chosen as a breeding parent because of its very high dry matter content and bright chip color from cold storage. High dry matter is associated with more efficient processing and lower oil absorption. FL 1887 was chosen for its high yields and good storage color. Seeds from the cross FL 1913 x FL 1887 were sown in the greenhouse near Rhinelander in the summer of 1997 and the resulting tubers were harvested in the fall of that year. Seedling tubers were planted in the field in the spring of 1998. One of the selections from this progeny was given the designation "1998 122.9." This selection was tested for three years in Rhinelander, with dry matter measurements and potato chip fry samples taken after each harvest. 1998 122.9 was found to have oval tubers with yellow flesh and shallow eyes. Its outstanding attributes were high solids, attractive chips, both immediately after harvest and after a period of cold storage, and observed tolerance to pitted scab and hollow heart.

In 2001, 1998 122.9 was given the name "FL 2072". It was tested in seventeen variety trials conducted by Frito-Lay throughout the United States in 2002 and 2003. Dry matter and yield are consistently competitive with Atlantic. FL 2072 fries extremely well out of 42°F storage up to 7 months due a very low level of reducing sugars. The yellow flesh (average Hunter colorimeter 'b' value is 27.5) results in appealing, golden chips.

The variety FL 2072 has been judged stable since its origin as a single plant in 1997. FL 2072 is uniform for all traits as described in Exhibit C, and has shown no variants other than what would normally be expected due to environment.

Tissue culture plantlets of FL 2072 were established and are maintained at the Frito-Lay Agricultural Operations and Development facility near Rhinelander, Wisconsin.

EXHIBIT B: Statement of Distinctness

As a chipping variety, for use up to 7 months out of storage at 42° F, FL 2072 is most similar to Snowden. FL 2072 can be distinguished from Snowden in regard to the following traits:

Tuber shape: FL 2072 tubers are oval to oblong in shape and often slightly flattened, whereas Snowden tubers are more nearly round. Samples of the two varieties produced in field plots in Rhinelander, WI in 2003 gave the following mean dimensions (Norchip dimensions are included to provide a comparison with another chipping variety):

	Length	Width	Depth	L: W Ratio
FL 2072	74.2mm	57.4 mm	44.2 mm	1.29
Snowden	64.2 mm	65.7 mm	50.6 mm	0.97
Norchip	60.8 mm	57.4 mm	34.8 mm	1.059

Dimensions of the individual tubers are attached.
FL 2072 has a slightly lighter skin color than Snowden and the skin is smooth as opposed to flaky. FL 2072 has distinctly yellow flesh (RHS 160A), while Snowden's flesh is white (RHS 155A).

Flowers: FL 2072 has very pale violet-blue (RHS 89D) flowers with white stripes, that at a slight distance look completely white, while the corolla of Snowden is solid white (RHS 155A). The anthers of FL 2072 are primarily yellow-orange (RHS 17A). However, there are often one or two flowers in an inflorescence with green or light yellow anthers. Snowden's anthers are light yellow (RHS 9A). The pistil on FL 2072 flowers protrudes quite far from the anther cone. Other differences include **1)** Number of Inflorescences/Plant. FL 2072 has an average of 4 inflorescences per plant, while Snowden has an average of 1. FL 2072 also has a greater number of florets per inflorescence (10.7 vs. 1.5). **2)** Corolla Shape. FL 2072 has pentagonal corollas; Snowden has Semi-stellate corollas. **3)** Berry Production. FL 2072 has a heavy berry set under field conditions, while Snowden produces none.

Foliage: The stems of FL 2072 contain some anthocyanin coloration and the petioles show very strong coloration. Anthocyanin coloration is completely absent on Snowden plants. The base of FL 2072's primary leaflets is often cordate, similar to Snowden. However, it is not uncommon to find that the lower leaflets on the same leaf have lobed bases.

Isozyme pattern: The isozyme pattern of FL 2072, as established by Dr. David Douches of Michigan State University, is unique among known North American varieties. This is detailed in Exhibit D-1: Additional Description of the Variety.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Potato (*Solanum tuberosum* L.)

INSTRUCTIONS

The Objective Description Form:
The objective description form lists characteristics to be used as the basis for developing the description of potato varieties. It is designed to guide the applicant in describing a variety in detail so a meaningful comparison with other potato varieties can be accomplished. It is recommended that this form be completed in as much detail as possible to ensure an accurate description. Please fill in the requested data and place the appropriate number that describes the varietal characters typical of this potato variety and the reference varieties in the respective boxes.

Test Guidelines:
Any statistical and trial (field test) data that may be necessary to support the variety description should be attached to this form. Please include for trial data the plot size, number of replications, number of plants, plant spacing, trial locations and growing periods. Trials should normally be conducted at one place, in the region that the variety has been adapted for, with a minimum of one growing period in the United States. All comparative data should be determined from varieties entered in the same trials. The size of the plots should be such that plants or parts of plants may be removed for measuring and counting without prejudice to the observations which must be made at the end of the growing period. As a minimum, each test should include a total of 60 plants which should be divided between two or more replicates. Separate plots for observation and measuring can only be used if they have been subject to similar environmental conditions. To determine color for a plant or plant parts a recognized standard color chart must be used such as the Royal Horticultural Society (R.H.S.) Color Chart.

Reference Varieties:
The application variety should be compared to at least one reference variety preferably a set of reference varieties. The reference varieties should be market class standard varieties currently grown in the United States and or the variety (ies) most similar. The following varieties are recommended as market class standards to be used as reference varieties:

Yellow-flesh table-stock	Yukon Gold
Round-white table-stock	Superior
Chip-processing	Atlantic, Snowden, Norchip
Frozen-processing	Russet Burbank
Russet table-stock	Russet Burbank, Russet Norkotah, Goldrush
Red table-stock	Red Pontiac, Red Norland, Red Lasoda

If the applicant does not use one of the recommended reference varieties the PVP office may not have a complete description for the reference variety used; therefore, the applicant may have to supply this description by completing an Exhibit C form for the reference variety.

Characteristics:

The plant type and growth habit characteristics are collected at early first bloom. Figure 1 is supplied to help visualize the growth habit. For this descriptor, look at the stems rather than the stems and foliage. Plant maturity is measured at natural vine senescence.

Stem characteristics are also collected at early bloom. Stem anthocyanin coloration is divided into two descriptors: Location and intensity. Figure 12 is supplied to give an example of stem wings.

Leaf characteristics are observed at early first bloom. Fully-developed leaves located on the middle third of the plant should be used. Leaf pubescence refers to general trichomes. Figure 2 is supplied for examples of leaf silhouette. Figure 3 should be used to describe terminal and primary leaflet shape. Figures 4 and 5 are used to describe the terminal and primary leaflet shape of tip and base, respectively. To measure the total number of primary leaflets pairs, collect 10 fully developed petioles (with leaves attached from each replication) and take the average number of secondary and tertiary leaflets. Figure 11 is supplied to define leaf characteristics. Glandular trichomes should be described through descriptor #12 (Additional Comments and Characteristics). Leaf stipules are shown in Figure 13 for visual definition.

Inflorescence characteristics should be measured at early first bloom. Figures 6 and 7 are supplied to describe corolla and anther shape, respectively. Corolla, calyx, anther, stigma, and pollen should be observed on newly opened flowers. Berry production should be based on field-grown plants rather than greenhouse plants.

Tuber characteristics should be observed following harvest. Figures 9 and 10 are available to describe distribution of secondary color and tuber shape, respectively.

Disease and pest reactions should be based upon specific tests rather than field observations. Other diseases or pests reactions not requested can be described if it is felt that it would be helpful to the description.

Quality characteristics should be described according to the market use.

If the plant is transgenic, this gene insertion(s) should be described.

Chemical identification and any other characteristics can be described if they are helpful in distinguishing the variety.

A rating system of 1-9 provides a scale for describing most characteristics in this form. Characteristic may be rated with intermediate values where the characteristic grades gradually from one extreme to another. For example, if the character states are described as: 3 = Small; 5 = Medium; 7 = Large; the other values of 1, 2, 4, 6, 8, or 9 may be selected.

Legend:

V = Application Variety

R1-R4 = Reference Varieties

* = Both the reference variety (ies) and application variety must be described for characteristics designated with an asterisk.

NAME OF APPLICANT (S)

Frito-Lay North America, Inc.

ADDRESS (Street and No. or RD No., City, State, Zip Code and Country)

7701 Legacy Drive
Plano, TX 75024

TEMPORARY OR EXPERIMENTAL DESIGNATION

1998 122.9

VARIETY NAME

FL 2072

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PVPO NUMBER

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REFERENCE VARIETIES: Enter the reference variety name in the appropriate box.

Reference Variety 1 (R1)	Reference Variety 2 (R2)	Reference Variety 3 (R3)	Reference Variety 4 (R4)
Snowden			

1. MARKET CHARACTERISTICS:

MARKET CLASS:

1 = Yellow-Flesh Table Stock 2 = Round-White Table stock 3 = Chip-Processing 4 = Frozen-Processing

5 = Russet Table stock 6 = Other _____

V	R1	R2	R3	R4
3	3			

2. PLANT CHARACTERISTICS:

GROWTH HABIT: (See Figure 1)
3 = Erect (>45° with ground); 5 = Semi-Erect (30-45° with ground); 7 = Spreading

V	R1	R2	R3	R4
7	5			

TYPE:
1 = Stem (foliage open, stems clearly visible); 2 = Intermediate; 3 = Leaf (Foliage closed, stems hardly visible)

V	R1	R2	R3	R4
2	2-3			

MATURITY: Days after planting (DAP) at vine senescence

V	R1	R2	R3	R4
135	124			

PLANTING DATE:

V	R1	R2	R3	R4
5/20/2004	5/20/2004			

REGIONAL AREA:

V	R1	R2	R3	R4
Rhinelander, WI	Rhinelander, WI			

MATURITY CLASS:

1 = Very Early (<100 DAP) 2 = Early (100-110 DAP) 3 = Mid-Season (111-120 DAP) 4 = Late (121-130 DAP) 5 = Very Late (>130 DAP).

V	R1	R2	R3	R4
5	4			

3. **STEM CHARACTERISTICS:** Measure at early first bloom

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* **STEM ANTHOCYANIN COLORATION:**
1 = Absent 3= Weak 5 = Medium 7 = Strong 9 = Very Strong

V	R1	R2	R3	R4
4	1			

STEM WINGS: (See Figure 12)
1 = Absent 3= Weak 5 = Medium 7 = Strong 9 = Very Strong

V	R1	R2	R3	R4
5	4			

4. **LEAF CHARACTERISTICS:**

LEAF COLOR: (*Observe fully developed leaves located on middle 1/3 of plant)*
1 = Yellowing-green 2 = Olive-green 3 = Medium Green 4 = Dark Green 5 = Grey-Green 6 = Other

V	R1	R2	R3	R4
3-4	3			

LEAF COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart
(*Observe fully developed leaves located on middle 1/3 of plant and circle the appropriate color chart)*

V	R1	R2	R3	R4
147A	147A			

LEAF PUBESCENCE DENSITY:
1 = Absent 2 = Sparse 3 = Medium 4 = Thick 5 = Heavy

V	R1	R2	R3	R4
3	3			

LEAF PUBESCENCE LENGTH:
1 = None 2 – Short 3 = Medium 4 = Long 5 = Very Long

V	R1	R2	R3	R4

(Note Descriptor #19 can be used to describe the type and length of the glandular trichomes observed.)

* **LEAF SILHOUETTE:** (See Figure 2)
1 = Closed 3 = Medium 5 = Open

V	R1	R2	R3	R4
4	3			

PETIOLES ANTHOCYANIN COLORATION:
1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very Strong

V	R1	R2	R3	R4
9	1			

LEAF STIPULES SIZE: (See Figure 13)
1 = Absent 3 = Small 5 = Medium 7 = Large

V	R1	R2	R3	R4
4	6			

TERMINAL LEAFLET SHAPE (See Figures 3 and 11)
1 = Narrowly Ovate 2 = Medium Ovate 3 = Broadly Ovate 4 = Lanceolate 5 = Elliptical 6 = Obovate 7 = Oblong 8 = Other

V	R1	R2	R3	R4
3	2			

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4. **LEAF CHARACTERISTICS**: (continued)

TERMINAL LEAFLET TIP SHAPE: (See Figures 4 and 11)
1 = Acute 2 = Cuspidate 3 = Acuminate 4 = Obtuse 5 = Other

V	R1	R2	R3	R4
3	2-3			

* **TERMINAL LEAFLET BASE SHAPE**: (See Figures 5 and 11)
1 = Cuneate 2 = Acute 3 = Obtuse 4 = Cordate 5 = Truncate 6 = Lobed 7 = Other

V	R1	R2	R3	R4
4	4			

* **TERMINAL LEAFLET MARGIN WAVINESS**:
1 = Absent 2 = Slight 3 = Weak 4 = Medium 5 = Strong

V	R1	R2	R3	R4
2	3			

NUMBER OF PRIMARY LEAFLET PAIRS: (See Figure 11)

AVERAGE:

V	R1	R2	R3	R4
5.2	4.3			

RANGE:

V	R1	R2	R3	R4
5 to 6	3 to 5	to	to	to

PRIMARY LEAFLET TIP SHAPE: (See Figures 4 and 11)
1 = Acute 2 = Cuspidate 3 = Acuminate 4 = Obtuse 5 = Other

V	R1	R2	R3	R4
3	3			

* **PRIMARY LEAFLET SIZE**:
1 = Very Small 2 = Small 3 = Medium 4 = Large 5 = Very Large

V	R1	R2	R3	R4
4	3-4			

PRIMARY LEAFLET SHAPE: (See Figures 3 and 11)
1 = Narrowly Ovate 2 = Medium Ovate 3 = Broadly Ovate 4 = Lanceolate 5 = Elliptical 6 = Ovate 7 = Oblong 8 = Other

V	R1	R2	R3	R4
2	1			

PRIMARY LEAFLET BASE SHAPE: (See Figures 5 and 11)
1 = Cuneate 2 = Acute 3 = Obtuse 4 = Cordate 5 = Truncate 6 = Lobed 7 = Other

V	R1	R2	R3	R4
4&6	4			

4. LEAF CHARACTERISTICS: (continued)

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NUMBER OF SECONDARY AND TERTIARY LEAFLET PAIRS: (See Figure 11)

AVERAGE:

V	19.2	R1	12	R2		R3		R4	

RANGE:

V	15 to 28	R1	6 to 18	R2	to	R3	to	R4	to

NUMBER OF INFLORESCENCE/PLANT:

AVERAGE:

V	4	R1	1	R2		R3		R4	

RANGE:

V	2 to 6	R1	0 to 3	R2	to	R3	to	R4	to

NUMBER OF FLORETS/INFLORESCENCE:

AVERAGE:

V	10.7	R1	1.5	R2		R3		R4	

RANGE:

V	7 to 13	R1	1 to 2	R2	to	R3	to	R4	to

* **COROLLA INNER SURFACE COLOR CHART VALUE:** (Royal Horticulture Society Color Chart) or Munsell Color Chart (Measure predominant color of newly open flower and circle the appropriate color chart)

V	89D	R1	155A	R2		R3		R4	

COROLLA OUTER SURFACE COLOR CHART VALUE: (Royal Horticulture Society Color Chart) or Munsell Color Chart (Measure predominant color of newly open flower and circle the appropriate color chart)

V	1	R1	1	R2		R3		R4	

COROLLA INNER SURFACE COLOR: (Measure predominant color of newly open flower)
1 = White 2 = Red-violet 3 = Blue-violet 4 = Other

V	3	R1	1	R2		R3		R4	

pale blue-violet with white stripes

COROLLA SHAPE: (See Figure 6)
1 = Very rotate 2 = Rotate 3 = Pentagonal 4 = Semi-stellate 5 = Stellate

V	3	R1	4	R2		R3		R4	

5. INFLORESCENCE CHARACTERISTICS:

See page 6

NUMBER OF INFLORESCENCE/PLANT:

AVERAGE:

V		R1		R2		R3		R4	

RANGE:

V	to	R1	to	R2	to	R3	to	R4	to

NUMBER OF FLORETS/INFLORESCENCE:

AVERAGE:

V		R1		R2		R3		R4	

RANGE:

V	to	R1	to	R2	to	R3	to	R4	to

* **COROLLA INNER SURFACE COLOR CHART VALUE:** (Royal Horticulture Society Color Chart) or Munsell Color Chart (Measure predominant color of newly open flower and circle the appropriate color chart)

V		R1		R2		R3		R4	

* **COROLLA OUTER SURFACE COLOR CHART VALUE:** (Royal Horticulture Society Color Chart or Munsell Color Chart (Measure predominant color of newly open flower and circle the appropriate color chart)

V		R1		R2		R3		R4	

* **COROLLA INNER SURFACE COLOR:** (Measure predominant color of newly open flower)

1 = White 2 = Red-violet 3 = Blue-violet 4 = Other

V		R1		R2		R3		R4	

COROLLA SHAPE: (See Figure 6)
1 = Very rotate 2 = Rotate 3 = Pentagonal 4 = Semi-stellate 5 = Stellate

V		R1		R2		R3		R4	

CALYX ANTHOCYANIN COLORATION:
1 = Absent 3 = Weak 5 = Medium 7 = Strong 9 = Very strong

V	1	R1	1	R2		R3		R4	

ANTHER COLOR CHART VALUE: (Royal Horticulture Society Color Chart) or Munsell Color Chart (Measure when newly opened flower is fully expanded and circle the appropriate color chart)

V	17A	R1	9A	R2		R3		R4	

ANTHER SHAPE: (See Figure 7)
1 = Broad cone 2 = Narrow cone 3 = Pear-shaped cone 4 = Loose 5 = Other

V	2&3	R1	3	R2		R3		R4	

5. **INFLORESCENCE CHARACTERISTICS:** (continued)

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POLLEN PRODUCTION:
1 = None 3 = Some 5 = Abundant

V	3	R1	2	R2		R3		R4	

STIGMA SHAPE: (See Figure 8)
1 = Capitate 2 = Clavate 3 = Bi-lobed

V	1	R1	1	R2		R3		R4	

STIGMA COLOR CHART VALUE: (Royal Horticulture Society Color Chart) or Munsell Color Chart (Circle the appropriate color chart)

V	137C	R1	137C	R2		R3		R4	

BERRY PRODUCTION: (Under field conditions)
1 = None 3 = Low 5 = Moderate 7 = Heavy 9 = Very Heavy

V	7	R1	1	R2		R3		R4	

6. **TUBER CHARACTERISTICS:**

* **PREDOMINANT SKIN COLOR:**
1 = White 2 = Light Yellow 3 = Yellow 4 = Buff 5 = Tan 6 = Brown 7 = Pink 8 = Red 9 = Purplish-red 10 = Purple
11 = Dark purple-black 12 = Other

V	4	R1	4	R2		R3		R4	

PREDOMINANT SKIN COLOR CHART VALUE: (Royal Horticulture Society Color Chart) or Munsell Color Chart (Circle the appropriate color chart)

V	199C	R1	199B	R2		R3		R4	

SECONDARY SKIN COLOR;
1 = Absent 2 = Present (please describe)

V	1	R1	1	R2		R3		R4	

SECONDARY SKIN COLOR CHART VALUE: Royal Horticulture Society Color Chart or Munsell Color Chart (Circle the appropriate color)

V		R1		R2		R3		R4	

SECONDARY SKIN COLOR DISTRIBUTION:
1 = Eyes 2 = Eyebrows 3 = Splashed 4 = Scattered 5 = Spectacled 6 = Stippled 7 = Other

V		R1		R2		R3		R4	

SKIN TEXTURE:
1 = Smooth 2 = Rough (flaky) 3 = Netted 4 = Russetted 5 = Heavily russetted 6 = Other

V	1	R1	2	R2		R3		R4	

6. TUBER CHARACTERISTICS: (continued)

2005 00205

* **TUBER SHAPE:** (See Figure 10)
1 = Compressed 2 = Round 3 = Oval 4 = Oblong 5 = Long 6 = Other

V	R1	R2	R3	R4
3	2			

TUBER THICKNESS:
1 = Round 2 = Medium thick 3 = Slightly flattened 4 = Flattened 5 = Other

V	R1	R2	R3	R4
3	2			

TUBER LENGTH (mm):

AVERAGE:

V	R1	R2	R3	R4
72.46	64.27			

RANGE:

V	R1	R2	R3	R4
50 to 105	45 to 105	to	to	to

STANDARD DEVIATION:

V	R1	R2	R3	R4
11.4	10.3			

AVERAGE WEIGHT OF SAMPLE TAKEN:

V	R1	R2	R3	R4
35 lbs	28			

TUBER WIDTH (mm):

AVERAGE:

V	R1	R2	R3	R4
65.60	61.50			

RANGE:

V	R1	R2	R3	R4
42 to 90	43 to 96	to	to	to

STANDARD DEVIATION:

V	R1	R2	R3	R4
11.75	11.39			

AVERAGE WEIGHT OF SAMPLE TAKEN:

V	R1	R2	R3	R4
35	28			

6. **TUBER CHARACTERISTICS**: (continued)

20050205

TUBER THICKNESS (mm):

AVERAGE:

V	R1	R2	R3	R4
53.5	51.26			

RANGE:

V	R1	R2	R3	R4
35 to 70	33 to 90	to	to	to

STANDARD DEVIATION:

V	R1	R2	R3	R4
8.37	9.18			

AVERAGE WEIGHT OF SAMPLE TAKEN:

V	R1	R2	R3	R4
35	28			

TUBER EYE DEPTH:

1 = Protruding 2 = Shallow 3 = Intermediate 4 = Deep 5 = Very deep

V	R1	R2	R3	R4
2	3-4			

TUBER LATERAL EYES:

1 = Protruding 2 = Shallow 3 = Intermediate 4 = Deep 5 = Very deep

V	R1	R2	R3	R4
2	3			

NUMBER EYE/TUBER:

AVERAGE:

V	R1	R2	R3	R4
9.9	9.8			

RANGE:

V	R1	R2	R3	R4
7 to 14	8 to 12	to	to	to

DISTRIBUTION OF TUBER EYES:

1 = Predominantly apical 2 = Evenly distributed

V	R1	R2	R3	R4
1	1			

PROMINENCE OF TUBER EYEBROWS:

1= Not prominent 2 = Slight prominence 3 = Medium prominence 4 = Very prominent 5 = Other

V	R1	R2	R3	R4
2-3	2			

6. TUBER CHARACTERISTICS: (continued)

PRIMARY TUBER FLESH COLOR CHART VALUE: Royal Horticuluture Society Color Chart of Munsell Color Chart (Circle the appropriate color chart)

V	R1	R2	R3	R4
160A	155A			

SECONDARY TUBER FLESH COLOR:

1 = Absent 2 = Present, please describe: _____

V	R1	R2	R3	R4
1	1			

SECONDARY TUBER FLESH COLOR CHART VALUE: Royal Horticuluture Society Color Chart of Munsell Color Chart (Circle the appropriate color chart)

V	R1	R2	R3	R4

7. DISEASES CHARACTERISTICS:

DISEASES REACTION: 0 = Not Tested 1 = Resistant 3 = Moderately Resistant 5 = Moderately Susceptible
7 = Susceptible 9 = Highly Susceptible

BACTERIAL RING ROT, FOLIAR REACTION:

V	R1	R2	R3	R4
7	7			

BACTERIAL RING ROT, TUBER REACTION:

V	R1	R2	R3	R4
7	7			

LATE BLIGHT:

V	R1	R2	R3	R4

PLRV (LEAF ROLL):

V	R1	R2	R3	R4

PVX:

V	R1	R2	R3	R4

PVY:

V	R1	R2	R3	R4

OTHER: Powdery Scab

V	R1	R2	R3	R4
5	3			

OTHER:

V	R1	R2	R3	R4

8. PESTS CHARACTERISTICS:

PEST REACTION: 0 = Not Tested 1 = Resistant 3 = Moderately Resistant 5 = Moderately Susceptible 7 = Susceptible 9 = Highly Susceptible

GOLDEN NEMATODE: Presumed susceptible based on pedigree

V	R1	R2	R3	R4
7	7			

OTHER:

V	R1	R2	R3	R4

9. GENE TRAITS:

INSERTION OF GENES: ☐ YES ☒ NO

IF YES, describe the gene(s) introduced or attach information:

10. QUALITY CHARACTERISTICS:

CHIEF MARKET:

SPECIFIC GRAVITY (wt. air/wt. air – wt. water)
1 = <1.060 2 = 1.060-1.069 3 = 1.070-1.079 4 = 1.080-1.089 5 = >1.090

V	R1	R2	R3	R4
5	4			

TOTAL GLYCOALKALOID CONTENT (mg./100 g. fresh tuber)

V	R1	R2	R3	R4
4.17	29.7			

See Exhibit D-2

OTHER QUALITY CHARACTERISTICS: Describe any other quality characteristics that may aid in identification, (e.g., chip-processing, french fry processing, baking, boiling, after-cooking darkening). Please attach data and corresponding protocol.

11. CHEMICAL IDENTIFICATION:

Describe chemical traits of the candidate variety that aid in its identification (e.g., protein or DSN electrophoresis). Please attach data and the corresponding protocol.

Isozyme fingerprints See Exhibit D-1

12. ADDDITIONAL COMMENTS AND CHARACTERISTICS:

Include any additional descriptors that would be useful in distringuishing the candidate variety.

Figure 1: Growth Habit

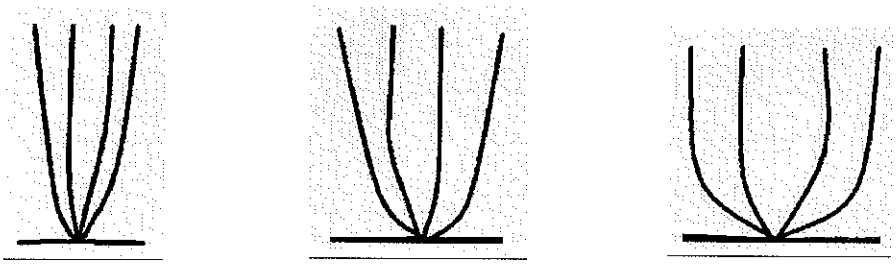


Figure 2: Leaf Silhouette

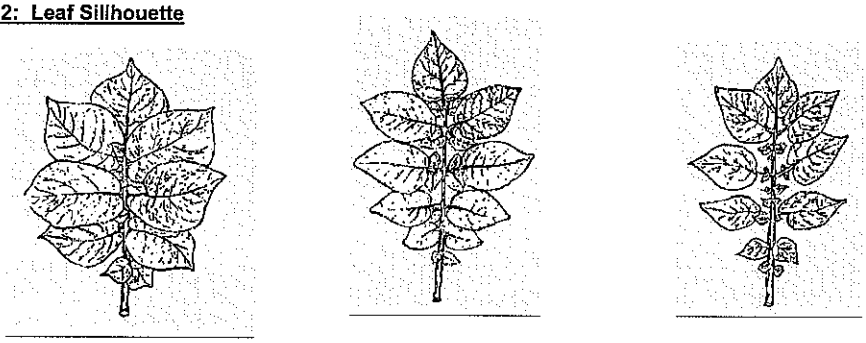


Figure 3: Terminal Leaflet Shape/Primary Leaflet Shape

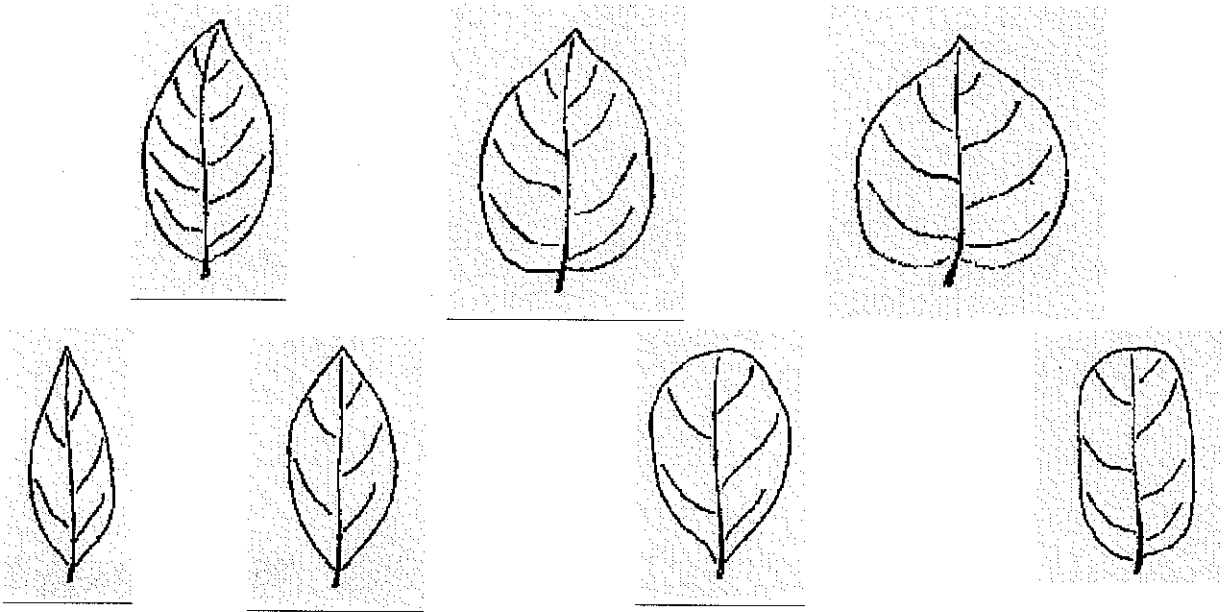


Figure 4: Terminal Leaflet Shape of Tip/Primary Leaflet Shape of Tip

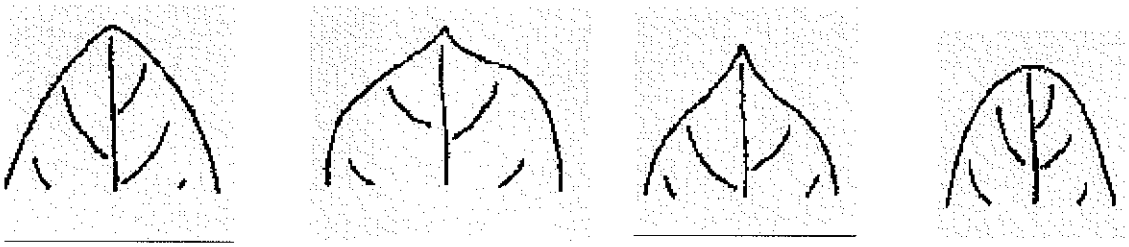


Figure 5: Terminal Leaflet Shape of Base/Primary Leafelet Shape of Base

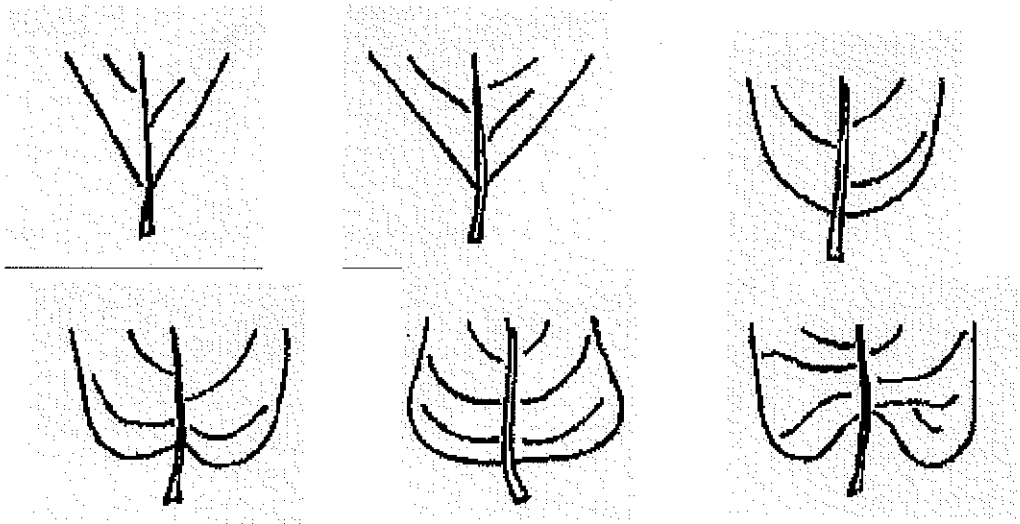
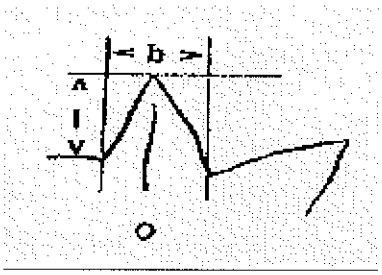
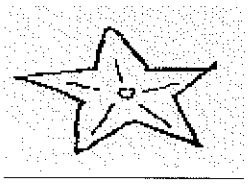
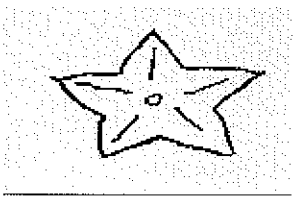


Figure 6: Corolla Shape

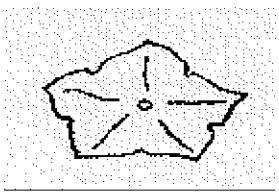




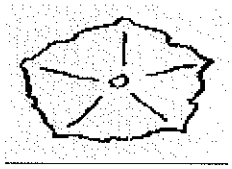
Stellate
1 > b



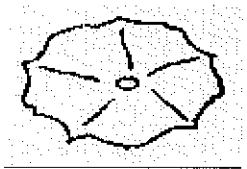
Semi-stellate
1 = b



Pentagonal
1 < b



Rotate
1 << b



Very rotate
1 <<< b

Figure 7: Anther Shape

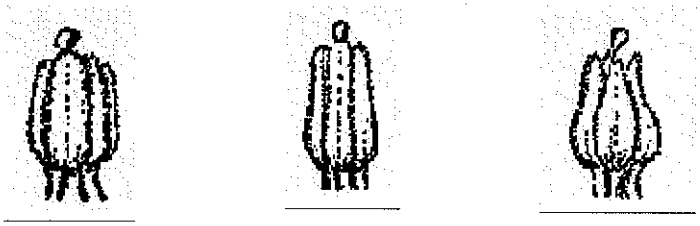


Figure 8: Stigma Shape

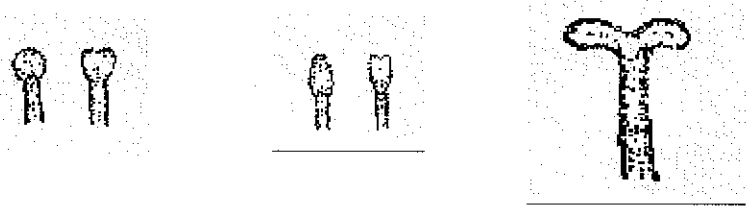


Figure 9: Distribution of Secondary Tuber Color

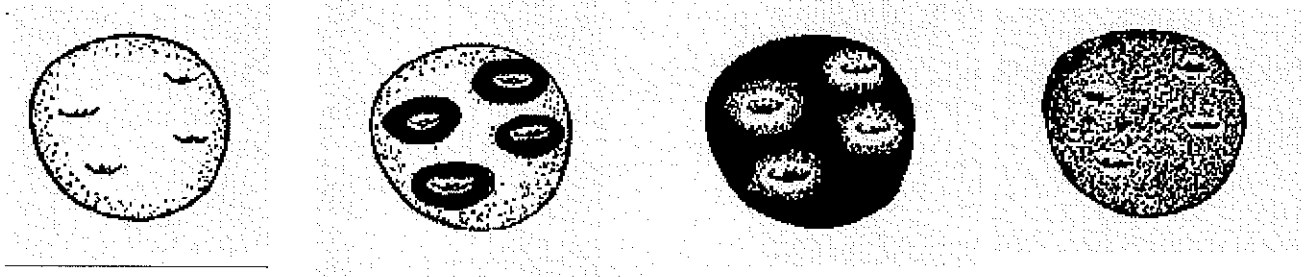


Figure 10: Tuber Shape

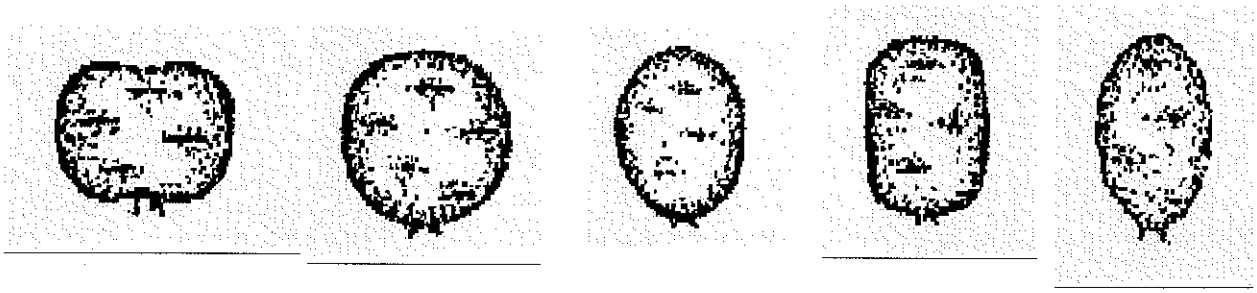


Figure 11: Leaf Dissection

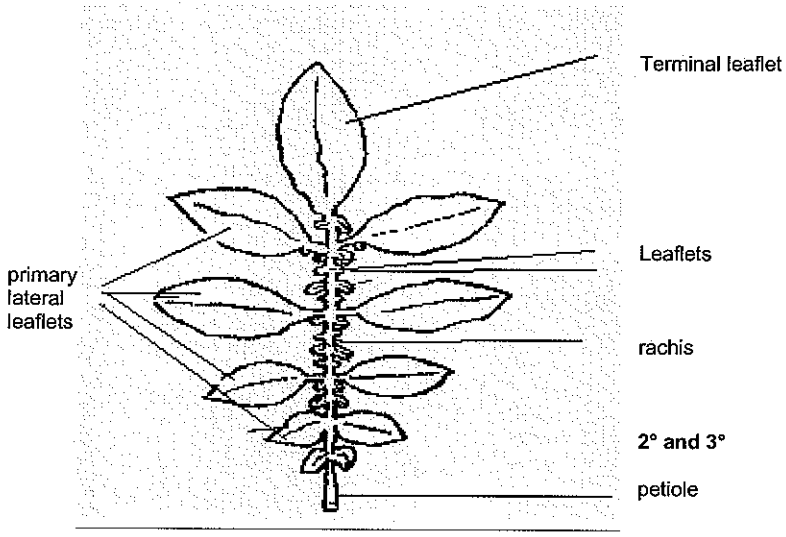
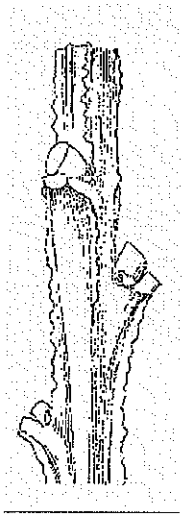


Figure 12: Stem Wings



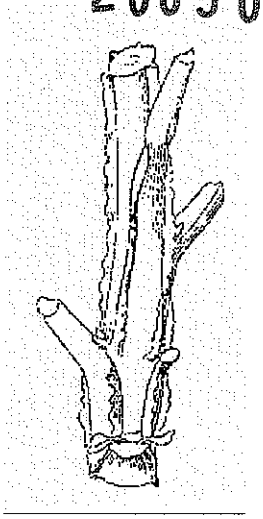
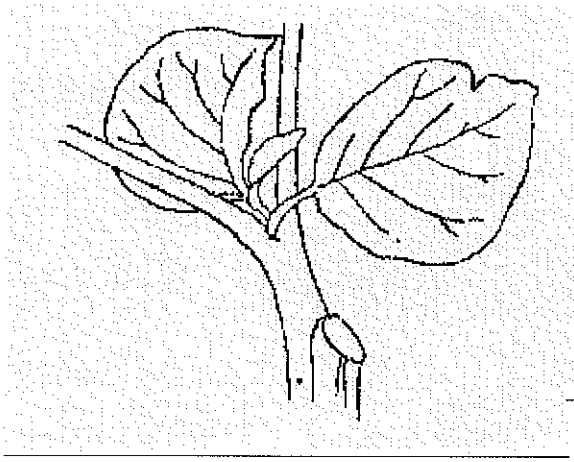
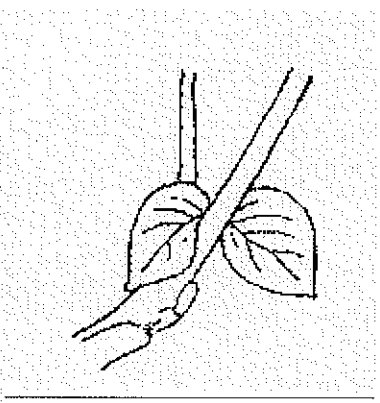
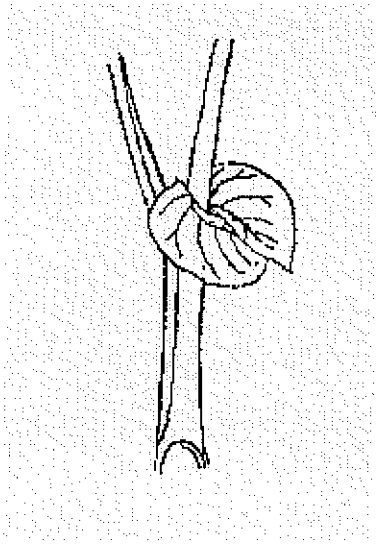


Figure 13: Leaf Stipules







LIGHT SPROUT CHARACTERISTICS:

1. Light sprout: general shape

		V	R1	R2	R3	R4
Spherical	1	3	4			
Ovoid	2					
Conical	3					
Broad cylindrical	4					
Narrow cylindrical	5					
Other (describe)	6					

2. Light sprout base: pubescence

		V	R1	R2	R3	R4
Absent	1	7	5			
Weak	3					
Medium	5					
Strong	7					
Very Strong	9					

3. Light sprout base: anthocyanin colouration

		V	R1	R2	R3	R4
Green	1	3	2			
Red-violet	2					
Blue-violet	3					
Other (describe)	4					

4. Light sprout base: intensity of anthocyanin colouration (if present)

		V	R1	R2	R3	R4
Absent	1	7	3			
Weak	3					
Medium	5					
Strong	7					
Very strong	9					

5. Light sprout tip: habit

		V	R1	R2	R3	R4
Closed	3	3	6			
Medium	5					
Open	7					

200500205

LIGHT SPROUT CHARACTERISTICS (continued)

		V	R1	R2	R3	R4
Absent	1	1	1			
Weak	3					
Medium	5					
Strong	7					
Very strong	9					

7. Light sprout tip anthocyanin colouration

		V	R1	R2	R3	R4
Green	1	3	1			
Red-violet	2					
Blue-violet	3					
Other (describe)	4					

8. Light sprout tip: intensity of anthocanin colouration (if present)

		V	R1	R2	R3	R4
Absent	1	9	1			
Weak	3					
Medium	5					
Strong	7					
Very strong	9					

9. Light sprout root initials: frequency

		V	R1	R2	R3	R4
Low	3	5	6			
Medium	5					
High	7					

EXHIBIT D: Additional description of the variety

As additional information about FL 2072, the following are included:

1) Isozyme fingerprint of FL 2072, with reference to the methodology utilized by Dr. David Douches of Michigan State University. Comparison of fingerprint of FL 2072 with that of Atlantic, Norchip and Snowden, shows distinct patterns for each variety.

2) Glycoalkaloid data for two years, comparing FL 2072 with Snowden, furnished by Dr. Stephen Love of the University of Idaho.

3) FL 2072 was not tested for Golden Nematode (Ro1) resistance based on its pedigree.

4) Photographs of typical plants, leaves and flowers of FL 2072, Atlantic, Norchip and Snowden from Rhinelander field, 2003.

5) Photographs FL 2072, Atlantic, Norchip and Snowden tubers and sprouts.

6) Tuber dimensions of FL 2072 and Snowden, 2003 & 2004.

7) Reducing sugar profile for 2004/2005 storage season

EXHIBIT D-1

Isozyme fingerprints of FL2072 compared to three reference varieties

Variety	Year of Test	MDH1	MDH2	PGD3	IDH1	PGI1	APS1	GOT1	GOT2	PGM1	PGM2	DIA1	DIA2	PRX3	ADH1
FL 2072	2003	1114	2222	1222		2222		3344	3355	1113	2223				
Atlantic	1996	2223	2223	1122	1112	2222	1111	4444	3555	1112	2223	1112	1144	2222	
Norchip		2234	2222	1222		2224		3344	3335	1122	2222			1123	
Snowden	1995	1224	2222	2222	1112	2222		3344	3555	1122	2223	1111			

Source of Data: Dr. David Douches, Michigan State University, 2003

Procedures and allelic designations used are according to Douches, D.S and K. Lundlum. 1991. Electrophoretic Characterization of North American Potato Cultivars. Am Potato J. 68:767-780

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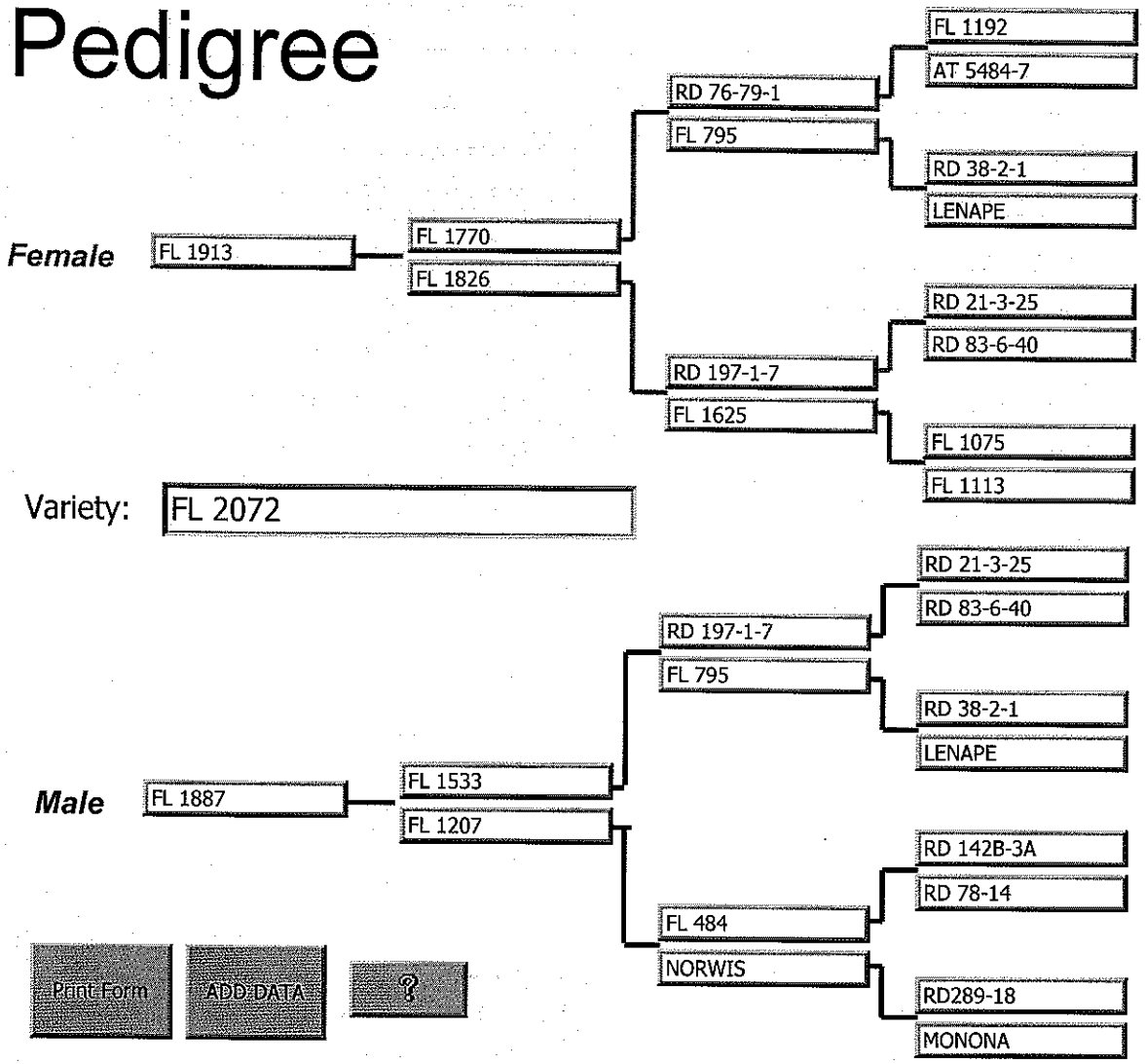
Exhibit D-2

Glycoalkaloids of FL 2072 compared to Snowden

Variety	Year of Test	OD@ 600	STD (mg/OD)	(mg/ aliquot)	Total Volume (4 mg/ aliquot)	8g sample (total mg/ 8 g)	Solids	(total mg /8g*% solids)	Total Glycoalkaloids (mg/100g fresh)
FL 2072	2003	0.164	0.89	0.145	10.000	1.451	**22.99**	4.172	**4.17**
FL 2072	10/22/03	0.697	0.71	0.495	10.000	4.949	**27.23**	16.845	**16.84**
FL 2072	12/3/03	0.325	0.70	0.228	10.000	2.275	**29.70**	8.445	**8.45**
FL 2072-USDA	1/12/04								**17.73**
Snowden	2002	1.595	0.72	1.148	10.000	11.484		29.714	**29.71**
Snowden	2002	1.452	0.72	1.045	10.000	10.454		27.051	**27.05**

Source of data: Dr. Stephen Love, University of Idaho and Dr. Kenneth Deahl, USDA

Pedigree



Variety Details (FL 2072

Synonym:	1998 122.9
Shape:	Round
Flesh:	Yellow
Skin:	
Flower:	
Maturity:	
Yield:	
Usage:	Storage chipping
Other:	
Breeder:	Hoopes
Year:	
Institutes:	Frito-Lay
Citation:	
Comment:	2001 observation was that it had good resistance to pitted scab and hollow heart

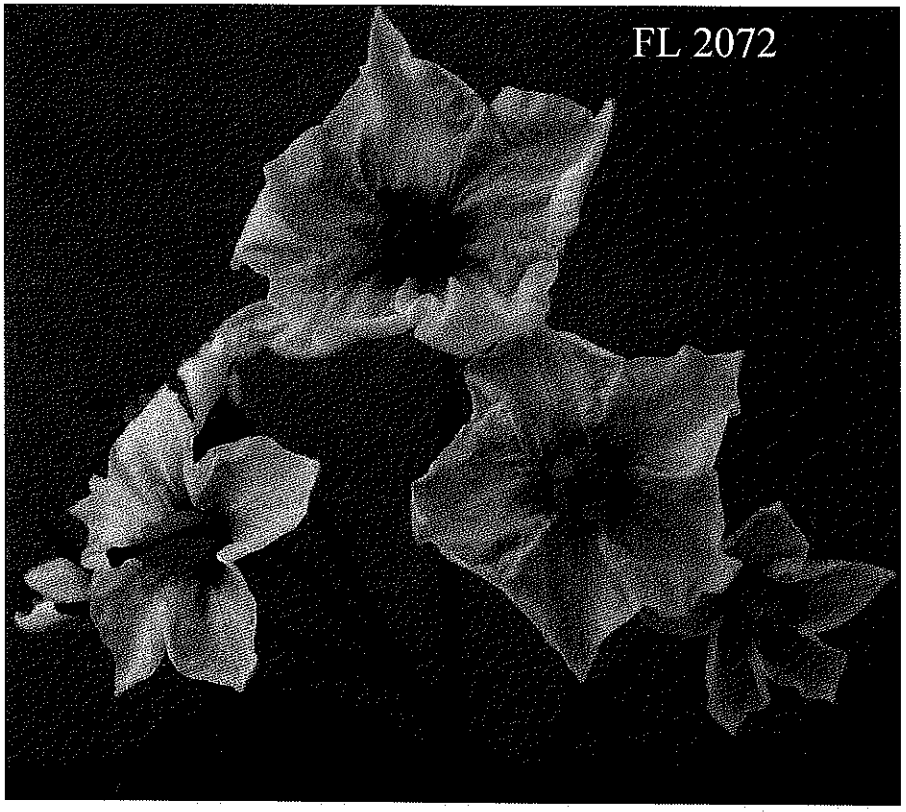

FL2072

ATLANTIC

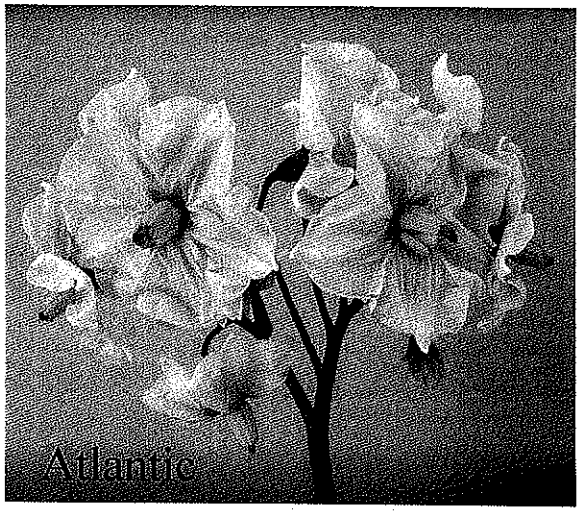
NORCHIP

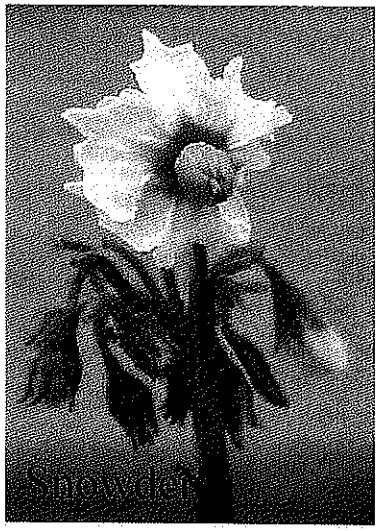
SNOWDEN

FL 2072

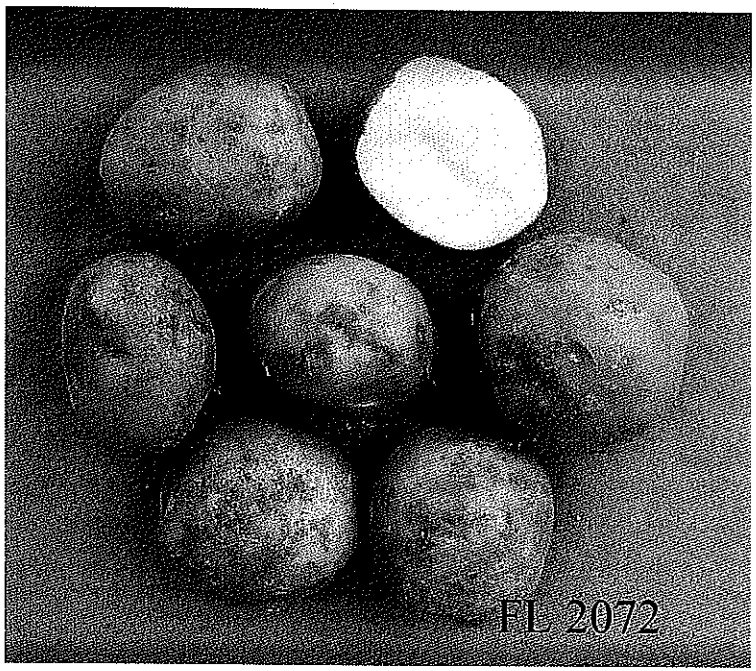

FL 2072

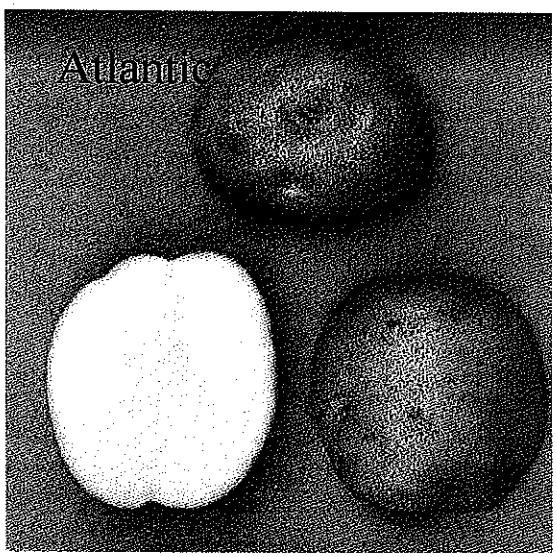

FL 2072

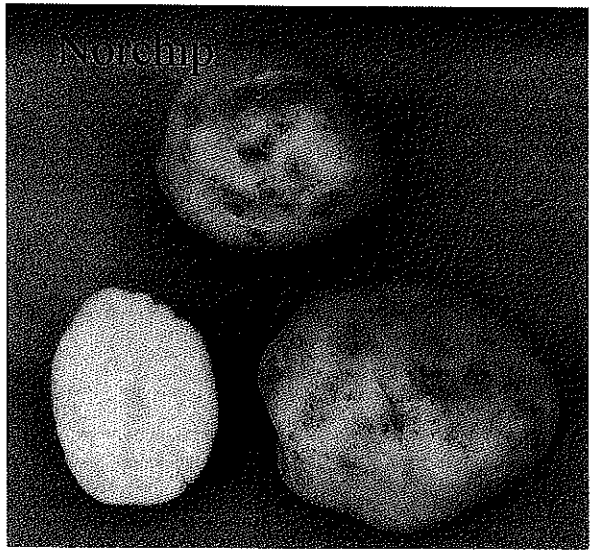

Atlantic

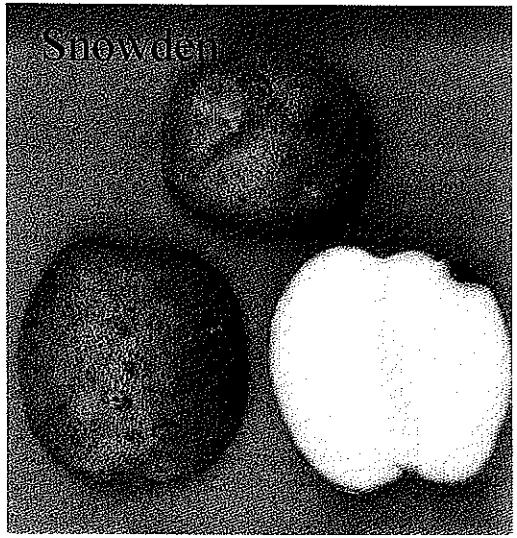

Snowder


FL 2072


FL 2072


Atlantic


Norchip

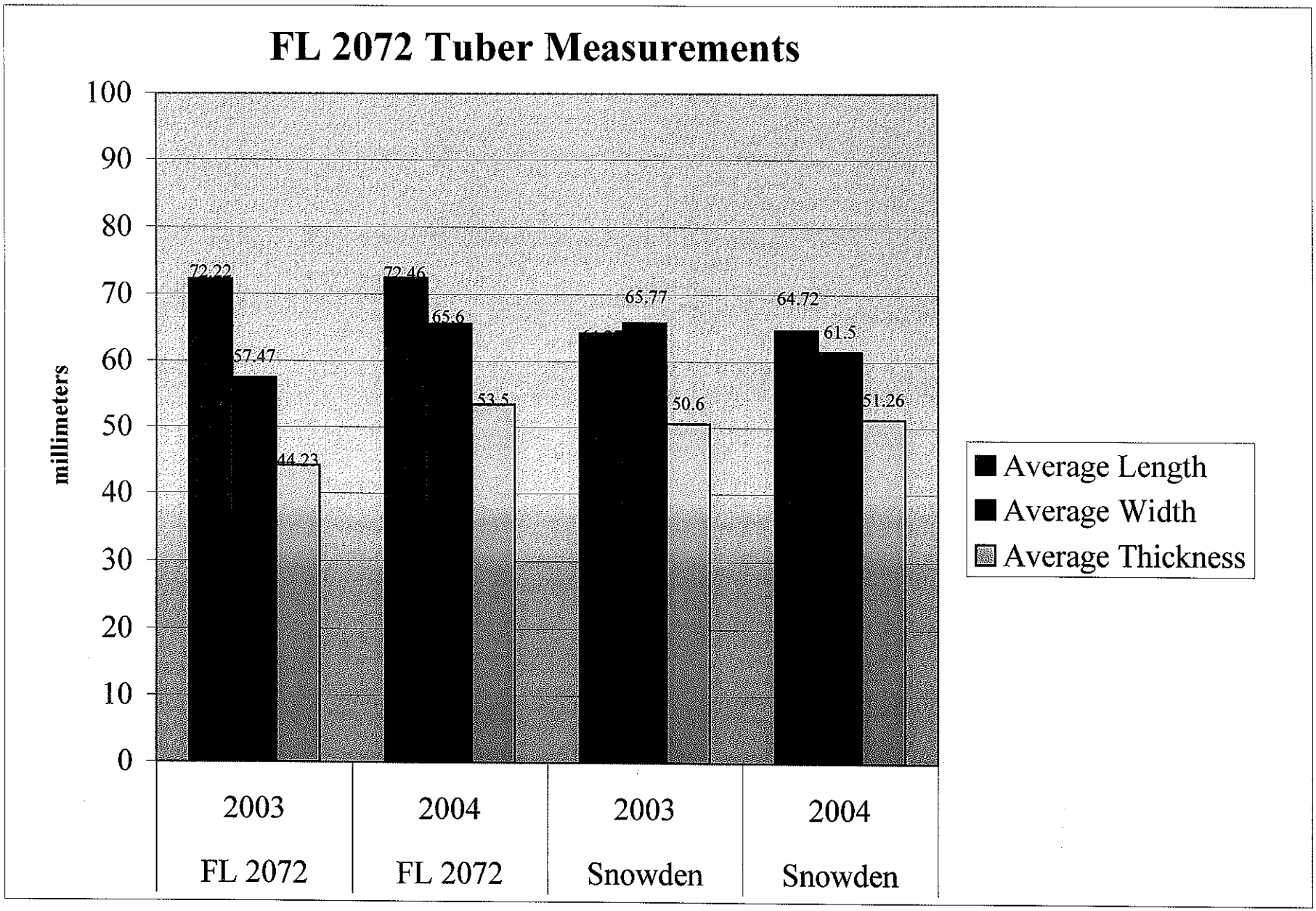

Snowden

FLIP

SURFSKIP

FLOAT

SNOWMAN


FL 2072 Tuber Measurements
millimeters
100
90
80
70
60
50
40
30
20
10
0
72.22
57.47
44.23
72.46
65.6
53.5
65.77
50.6
64.72
61.5
51.26
2003 FL 2072
2004 FL 2072
2003 Snowden
2004 Snowden
Average Length
Average Width
Average Thickness

20050205

Bin: F13

Storage Research
SR CSS Farms

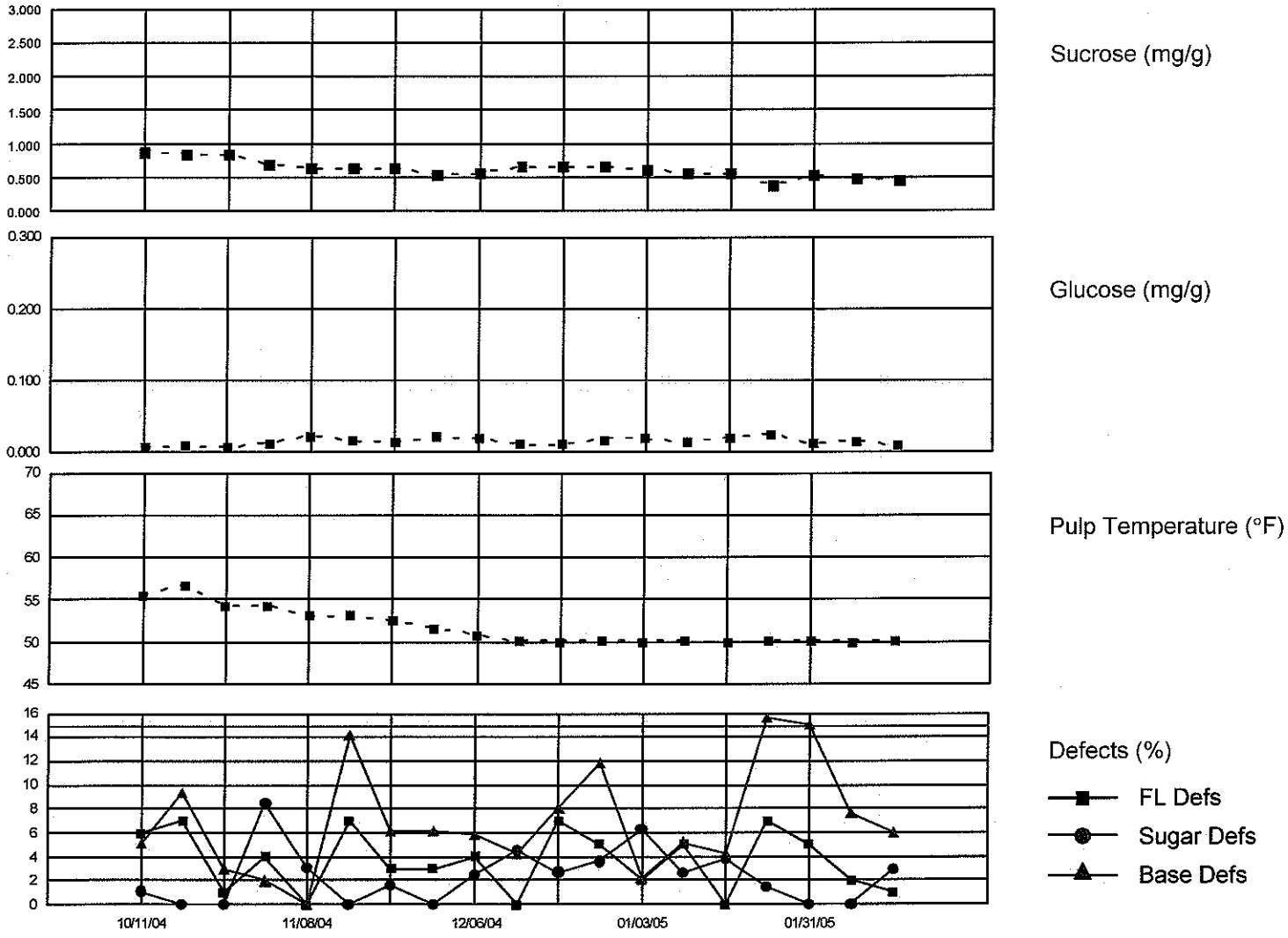
FLNA 2004

FL2072

FL Bin #: 90
Location: Heartland
Field Name:
Initial Cwt: 889

FL Solids: 19.40
Bruise Free: 85.44
Scab: 0.00
Hollow Heart: 0.00

% < 2": 6.80
% < 2.5":
% > 3":
% > 4": 0.00
TuberCount:



Sample Date	Temp	Sucrose	Glucose	FL Defs	Perfect Chip	Sugar Defs	Base Defs	LColor	a-Color
10/11/04	55.40	0.853	0.007	6.0	93.8	1.1	5.1	70.34	-1.92
10/18/04	56.70	0.826	0.008	7.0	90.6	0.0	9.4	70.72	-1.92
10/25/04	54.20	0.842	0.006	1.0	97.0	0.0	3.0	70.72	-1.92
11/1/04	54.20	0.677	0.011	4.0	89.5	8.5	2.0	70.72	-1.92
11/8/04	53.10	0.628	0.022	0.0	96.9	3.1	0.0	71.91	-2.69
11/15/04	53.10	0.622	0.015	7.0	85.8	0.0	14.2	71.91	-2.69
11/22/04	52.40	0.615	0.013	3.0	92.2	1.6	6.2	71.91	-2.69
11/29/04	51.50	0.510	0.020	3.0	93.8	0.0	6.2	71.91	-2.69
12/6/04	50.70	0.560	0.018	4.0	91.6	2.5	5.9	71.91	-2.69
12/13/04	50.00	0.649	0.010	0.0	91.2	4.5	4.3	71.91	-2.69
12/20/04	49.80	0.659	0.010	7.0	89.3	2.7	8.0	71.91	-2.69
12/27/04	50.00	0.646	0.016	5.0	84.5	3.6	11.9	71.91	-2.69
1/3/05	49.80	0.590	0.018	2.0	91.5	6.3	2.2	71.91	-2.69
1/10/05	50.00	0.557	0.013	5.0	92.2	2.6	5.2	71.91	-2.69
1/17/05	49.70	0.545	0.019	0.0	91.9	3.8	4.3	71.91	-2.69
1/24/05	50.00	0.355	0.024	7.0	82.8	1.5	15.7	74.28	-3.39
1/31/05	50.00	0.524	0.011	5.0	84.9	0.0	15.1	74.28	-3.39
2/7/05	49.80	0.458	0.014	2.0	92.4	0.0	7.6	74.28	-3.39
2/14/05	50.00	0.439	0.008	1.0	91.1	2.9	6.0	74.28	-3.39

FL 2072 DATE: 12/19/03

	2003	2004
WEIGHT OF SAMPLE:	32 lbs.	35 lbs.
COMMENTS:		

TUBER NUMBER	2003 LENGTH (mm)	2004 LENGTH (mm)	2003 WIDTH (mm)	2004 WIDTH (mm)	2003 DEPTH (mm)	2004 DEPTH (mm)
1	90	72	80	70	60	64
2	72	91	55	81	40	60
3	70	104	60	90	50	70
4	100	81	50	75	39	65
5	82	110	69	83	50	65
6	100	64	75	61	60	50
7	70	61	60	56	45	46
8	69	91	56	83	42	66
9	81	70	60	70	50	52
10	52	100	53	85	47	66
11	90	72	57	70	50	60
12	95	55	66	45	50	40
13	88	100	55	90	40	70
14	74	80	60	70	45	51
15	75	70	50	70	35	53
16	80	66	70	70	50	56
17	80	98	58	86	48	70
18	95	41	70	50	60	42
19	71	87	52	70	45	55
20	75	56	60	51	48	40
21	80	83	65	74	50	60
22	70	81	50	60	35	55
23	87	55	62	61	44	45
24	62	75	50	60	42	50
25	89	55	60	53	46	40
26	70	51	50	50	37	46
27	84	52	63	51	51	48
28	75	65	65	63	50	55
29	80	65	60	55	45	50
30	75	71	58	65	45	54
31	88	85	70	90	50	70
32	66	79	56	65	55	48

TUBER NUMBER	LENGTH (mm)	LENGTH (mm)	WIDTH (mm)	WIDTH (mm)	DEPTH (mm)	DEPTH (mm)
33	86	50	65	45	50	45
34	80	78	67	65	55	55
35	90	57	60	60	40	45
36	75	70	55	66	40	45
37	80	44	60	54	45	45
38	70	75	55	63	45	46
39	80	56	55	55	45	48
40	75	81	60	65	45	55
41	58	75	45	65	42	55
42	70	100	50	80	34	61
43	105	75	70	55	50	50
44	67	72	50	60	40	50
45	63	85	48	74	40	55
46	80	65	57	65	40	55
47	70	51	55	55	40	48
48	75	60	50	50	31	45
49	70	86	50	80	35	55
50	68	56	64	61	45	45
51	70	57	68	80	47	50
52	65	70	53	72	45	63
53	66	90	49	75	35	60
54	101	110	65	90	45	68
55	69	100	57	82	48	70
56	71	94	55	85	40	65
57	75	70	62	57	50	53
58	85	60	66	50	45	41
59	68	80	53	65	40	50
60	50	60	40	58	30	55
61	75	65	55	54	54	43
62	80	40	65	42	50	35
63	80	55	65	50	42	40
64	88	64	52	60	35	50
65	72	65	60	60	46	52
66	56	92	47	71	44	57
67	86	67	68	62	48	51
68	60	90	55	80	40	60
69	70	70	57	65	50	52

TUBER NUMBER	LENGTH (mm)	LENGTH (mm)	WIDTH (mm)	WIDTH (mm)	DEPTH (mm)	DEPTH (mm)
70	90	70	70	52	50	45
71	70	60	56	55	45	45
72	55	70	50	66	45	50
73	65	75	51	65	42	54
74	60	70	56	60	40	46
75	66	65	55	61	40	50
76	74	72	56	65	47	60
77	60	60	45	55	32	45
78	75	45	58	46	44	38
79	65	50	45	53	33	46
80	75	85	56	80	46	70
81	90	100	66	89	45	70
82	68	112	54	83	45	60
83	60	61	52	55	40	46
84	80	67	66	61	48	60
85	65	60	57	60	42	53
86	80	76	55	72	45	58
87	71	60	59	56	45	46
88	70	90	55	77	40	65
89	72	66	61	62	46	50
90	59	90	51	71	41	60
91	56	73	45	73	35	55
92	74	62	60	60	45	50
93	53	61	45	60	38	55
94	67	52	58	63	45	57
95	65	65	51	57	42	54
96	75	80	59	67	45	61
97	55	85	45	80	37	60
98	61	72	48	60	40	51
99	80	71	60	65	45	50
100	82	100	69	82	50	60
AVERAGE:	**74.220**	**72.460**	**57.470**	**65.600**	**44.230**	**53.500**
ST. DEVIATION	**11.460**	**16.267**	**7.492**	**11.759**	**5.983**	**8.377**
MAX. VALUE	**105**	**112**	**80**	**90**	**60**	**70**
MIN. VALUE	**50**	**40**	**40**	**42**	**30**	**35**
L:W ratio	**1.29**	**1.10**		**W:D ratio**	**1.30**	**1.23**

SNOWDEN

WEIGHT OF SAMPLE:

COMMENTS:

TUBER NUMBER	2003 LENGTH (mm)	2004 LENGTH (mm)	2003 WIDTH (mm)	2004 WIDTH (mm)	2003 DEPTH (mm)	2004 DEPTH (mm)
1	72	80	72	73	53	55
2	70	93	68	80	55	60
3	63	103	60	91	41	70
4	70	75	70	72	55	60
5	65	70	70	77	62	51
6	55	60	55	62	45	50
7	72	60	75	60	60	51
8	75	60	80	55	60	45
9	71	45	75	43	60	41
10	65	71	81	79	60	56
11	55	70	60	70	54	58
12	70	80	70	62	50	50
13	70	83	70	76	50	55
14	65	64	63	60	50	50
15	60	62	68	58	55	55
16	55	56	55	63	50	49
17	50	90	50	46	41	90
18	65	61	62	52	43	45
19	53	50	65	70	50	60
20	70	56	65	55	50	45
21	45	55	53	53	47	47
22	52	81	80	74	40	63
23	62	53	70	60	60	52
24	58	90	65	80	50	57
25	105	92	65	75	50	60
26	52	71	60	60	43	48
27	65	60	61	55	50	47
28	75	51	65	77	45	61
29	65	62	74	65	52	59
30	46	47	52	55	45	47
31	51	62	52	76	40	53
32	62	77	65	80	45	63
33	65	60	70	61	55	45
34	75	91	72	83	52	56
35	52	54	60	53	45	45
36	60	50	70	46	54	47
37	55	77	55	65	45	55
38	55	85	60	75	42	66
39	60	102	60	96	50	70

TUBER NUMBER	2003 LENGTH (mm)	2004 LENGTH (mm)	2003 WIDTH (mm)	2004 WIDTH (mm)	2003 DEPTH (mm)	2004 DEPTH (mm)
40	85	61	80	60	60	50
41	61	80	60	71	45	60
42	71	80	65	78	48	60
43	66	60	55	65	37	56
44	53	46	55	47	44	41
45	62	70	60	60	50	55
46	50	73	55	60	51	50
47	51	60	60	53	50	49
48	55	54	56	51	45	46
49	50	61	50	52	40	45
50	50	105	60	90	40	81
51	50	61	61	56	45	50
52	70	72	75	70	60	55
53	75	61	70	56	61	50
54	70	73	74	56	45	50
55	71	45	65	50	51	41
56	86	80	75	70	60	53
57	75	61	72	58	55	50
58	70	61	70	55	55	40
59	99	70	98	61	75	60
60	55	70	60	70	44	50
61	65	55	71	51	52	40
62	64	52	60	48	42	43
63	50	45	61	51	50	39
64	55	61	55	51	45	35
65	73	46	70	45	51	44
66	60	65	62	60	50	51
67	65	65	73	58	50	50
68	70	55	61	61	50	50
69	70	65	70	61	55	49
70	71	46	70	54	50	42
71	60	60	75	60	55	49
72	85	72	75	61	60	50
73	70	56	70	51	55	48

TUBER NUMBER	2003 LENGTH (mm)	2004 LENGTH (mm)	2003 WIDTH (mm)	2004 WIDTH (mm)	2003 DEPTH (mm)	2004 DEPTH (mm)
74	60	46	60	50	48	43
75	80	67	72	51	60	40
76	80	65	79	60	55	51
77	65	52	70	49	50	40
78	66	74	71	70	50	50
79	68	55	72	45	53	33
80	55	53	70	50	50	45
81	65	65	62	60	50	47
82	55	77	61	65	49	55
83	53	45	55	52	45	41
84	65	60	61	55	45	48
85	60	60	62	51	50	45
86	73	57	73	50	52	42
87	65	50	65	61	50	56
88	61	72	63	85	50	75
89	66	60	60	58	48	52
90	65	60	70	61	50	50
91	75	44	75	48	51	38
92	62	60	73	63	55	48
93	56	50	63	53	59	44
94	59	60	63	55	50	47
95	61	70	59	80	50	70
96	70	70	65	54	49	44
97	65	50	65	56	50	51
98	59	56	62	53	54	47
99	71	66	66	52	54	49
100	63	72	68	69	54	56
AVERAGE:	**64.270**	**64.720**	**65.770**	**61.500**	**50.610**	**51.260**
ST. DEVIATION	**10.359**	**13.644**	**7.985**	**11.397**	**6.117**	**9.189**
MAX	**105**	**105**	**98**	**96**	**75**	**90**
MIN	**45**	**44**	**50**	**43**	**37**	**33**
L:W Ratio	**0.977**	**1.052**		**W:D**	**1.300**	**1.200**

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U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

Application is required in order to determine if a plant variety protection certificate is to be issued *(7 U.S.C. 2421)*. The information is held confidential until the certificate is issued *(7 U.S.C. 2426)*.

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Frito-Lay North America, Inc.	1998 122.9	FL 2072
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP, and Country)*	**5. TELEPHONE** *(Include area code)*	**6. FAX** *(Include area code)*
7701 Legacy Drive Plano, TX 75024	(972) 334-3822	(972) 334-5965
	7. PVPO NUMBER	200500205

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. **If no, please explain.** ☑ **YES** ☐ **NO**

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? **If no, give name of country.** ☑ **YES** ☐ **NO**

10. Is the applicant the original owner? ☑ **YES** ☐ **NO** **If no, please answer one of the following:**

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?
☐ **YES** ☐ **NO** **If no, give name of country**

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?
☐ **YES** ☐ **NO** **If no, give name of country**

11. Additional explanation on ownership *(Trace ownership from original breeder to current owner. Use the reverse for extra space if needed)*:

Breeders employed by Frito-Lay North America, Inc. developed the variety FL 2072. By agreement between Frito-Lay and its employees, all rights to inventions and discoveries made by the employees while employed by Frito-Lay are assigned to Frito-Lay North America, Inc. with no ownership rights of any kind retained by the employees.

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.